TravelPilot | **Navigation**

TravelPilot DX-V

Installation instructions

TravelPilot DX

http://www.blaupunkt.com

BLAUPUNKT

Safety precautions

Congratulations on your purchase of this Blaupunkt product. Thank you for the trust you are putting into our brand!

The following installation instructions are intended to help you getting the best performance from your Blaupunkt product. To avoid the aggravation of costly mistakes and serious damage to your system, please read all of the instructions carefully before you begin. If you're not confident that you can install the unit correctly, have it installed by a qualified Blaupunkt installation technician.

Installation and connection regulations

While connecting and installing this equipment, make sure to disconnect the negative terminal of the battery.

Important!

Observe all safety precautions provided by the automobile manufacturer (alarm systems, immobilisers, airbag)!
Before drilling the holes for mounting and wiring, make sure that no existing wiring or vehicle parts will be damaged (e.g. petrol tank, petrol lines).
Use wire bushings for all sharp-edged holes.
To avoid interference, make sure to lay the wiring far enough away from the wire harness.
Attach a fuse to the positive supply wire at a maximum of 30 cm from the battery to protect the battery and the positive supply wire in the event of a short circuit.

The navigation equipment is suitable for vehicles with:

- **12 V battery power**
- **Negative pole on the vehicle body**

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Description

The **TravelPilot DX-V** navigation system is an independent system with an integrated gyroscope. After a destination has been entered and activated, the system delivers visual driving recommendations as pictograms on a colour monitor and spoken driving information via a separate speaker well in advance of any turns or changes in driving direction required. In this way, the system guides the motorist from his/her starting point on the best route to the selected destination.
All of the available functions are described in the specifications of the CD-ROM used.

Notes on how the system functions

The TravelPilot is equipped with an automatic calibration feature which is required to determine the current vehicle position. Depending on the GPS reception available, the calibration is completed after the vehicle has been driven approx. 15 km. Driving along a winding route (in the city), which is indicated on the monitor on a map, accelerates the calibration.

The speedometer signal connection in the vehicle allows the system to determine the distance driven. **If there is no speedometer signal**, it will be necessary to have a route sensor installed by an authorised customer service centre.
In this case, you will have to order a sensor kit (route sensor, magnet strips, bracket, plug and installation instructions) from your dealer.
Order No.: 7 607 611 093

Installation preparations

Before starting the installation, check to see that no parts from the installation pack are missing. ..... page 10

The following steps must be completed to install the equipment:

- **Installing the navigation unit (computer)** ..... page 5
- **Installing the GPS antenna .....** page 5
- **Installing the display (monitor)** ..... page 6
- **Installing the operating unit** ..... page 6
- **Installing the speedometer signal wire** ..... page 6
- **Installing the back-up lights signal wire** ..... page 7

Installing the navigation unit

Where to install the navigation unit

Important!
Before inserting the TravelPilot DX-V, you have to make sure that the gyroscope is positioned horizontally (see Fig. 5, page 14).

The **TravelPilot DX-V** can be installed in the car radio compartment in the vehicle (installation depth 218 mm). You will need an installation bracket (order no. 8 601 310 555) (see Fig. 1 page 13).
For vehicles without a DIN compartment, a universal equipment housing has been included (see Fig. 1.1 page 13). Check to see which method of installation is required for the vehicle and, if necessary, use a vehicle-specific installation kit.
When selecting an installation location, you must remember that the navigation unit has to be built into the vehicle body.

Installation position:

right / left	**min. -5° / max. +5°**
slope to the rear	**min. -3° / max. +100°**

A fan has been built into the back of the unit to cool it when it overheats. To allow for sufficient air circulation, make sure that the air vents are not blocked. Use only the hole strips to attach the unit to the mounting bolt.

Make sure that there is enough room to insert and remove the navigation CD.

Positive connection

Connect the navigation unit to continuous plus and the positive connection to the ignition.
Lay the continuous plus wire (red) to the battery (do not lay the wire directly along any wire harnesses). **Connect a fuse holder to protect the positive wire at a maximum of 30 cm from the vehicle battery** (if necessary, drill a hole in the splashback and use the necessary wire bushing).
Connect the switching plus wire (black) to terminal 15 on the fuse holder (plus is switched by the ignition) behind the fuse.

Negative connection

Screw the negative wire (brown) directly to the vehicle body. Scratch the contact points on the ground down to the metal and grease it with graphite grease (important for a good ground).

Installing the GPS antenna

Install the antenna according to the enclosed instructions.
If the GPS antenna is installed inside the vehicle, there is no guarantee that the system will function properly.

Installing the display

Safety instructions

The display support must never be greased or lubricated with oil.
The monitor cable must be laid so that it is not subjected to any tensile strains or other loads.

Important!
Do not mount the monitor within the inflation range of the airbags (on the driver's side, the passenger side or the side airbags) or where it might strike the head or knees of anyone in the vehicle in the event of an accident!

Before drilling the holes for the mounting screws and wiring, make sure that no damage will be done to covered wiring, the petrol tank or fuel lines!

Installing the display

1. Attach the display support to the display (Fig. 2, Page 13).

   Mount the display together with its support onto the dashboard or console (Fig. 3, Page 13).

   Connect the cables and run them towards the navigation unit.

Uninstalling the display

1. Press the tab on the plug and carefully pull out the plug **(do not pull on the cable)** (Fig. 4, Page 13).
2. Push together the lugs on the display support and pull out the display in an upwards direction (Fig. 4, Page 13).

Installing the control unit

Mount the control unit bracket in a location where the control unit will be easily accessible, e.g. on the centre console.

Important!
Do not mount the control unit within the inflation range of the airbags (on the driver's side, the passenger side or the side airbags) or where it might strike the head or knees of anyone in the vehicle in the event of an accident!
Before drilling the holes for the mounting screws, make sure that no damage will be done to covered wiring, the petrol tank or fuel lines!
Make sure that the vehicle operating elements remain easily accessible and are not obstructed in any way (gear stick, hand brake, etc.)!

Note:
The "wide screen" monitor is equipped with an integrated infrared receiver. This means that the supplied receiver for the RC 09H does not necessarily have to be installed.

Important installation information for the speedometer signal

When connecting the speedometer signal, make sure to observe the following information:

1. **Where to find the signal:** For many vehicles, the speedometer signal can be found in the vehicle-specific car radio plug. Contact the customer service of the vehicle manufacturer or an authorised navigation dealer to find out what the exact pin allocation is.

2. Do not use the speedometer signal from ABS control units or control circuits.
3. **Important:**
   We assume no responsibility for any equipment that is installed incorrectly and the consequences thereof!

Connecting the speedometer signal

Important:
This connection should be made by an authorised customer service centre.

The connection is made with the speedometer signal wire (8 618 841 988) to the vehicle-specific speedometer signal connection. (see connection diagram, page 18).

Connecting the back-up lights signal wire

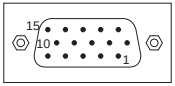
Important:
This connection should be made by an authorised customer service centre.

The connection is made with the back-up lights signal wire (8 618 842 033) to the vehicle back-up lights. Make sure that there are **+12V** at the connection when the vehicle is backing up (see connection diagram, page 18).

Important:
We assume no responsibility for any equipment that is installed incorrectly and the consequences thereof!

Video input assignment

The video input socket is intended for future applications. For information on connection options, please contact a Blaupunkt dealer or our hotline. See connection diagram for assignment.



Pin	Description	Input / Ouput	Comment
1	EXT_R	E	Red input
2	EXT_G	E	Green input
3	EXT_B	E	Blue input
4	V_GND	E	Video earth
5	EXT_SYNC	E	Synchronisation input
6	NC	-	
7	U14	A	
8	STANDARD SWITCH	E	Low = PAL Format / High = NTSC Format
9	EARTH	A	
10	NC		
11	N. B.		
12	Switch on EXT.	E	Low = Off / High = On
13	UB	A	
14	Screen switch	A	Low = Mirror image / High = Normal image
15	MP_U53	A	

System test after installation

The system test allows you to test the external connections to see that they are working correctly.

Proceed as follows:

1. Turn off TravelPilot DX-V
2. Press the i button and keep it pressed.
3. Turn on the TravelPilot DX-V and release the i button when the service menu appears.
4. Using the > button, select the test menu and press the OK button.
5. Now select the required test using the ∨ or ∧ button, press the OK button and follow the on-screen instructions.

   If the test was completed successfully, the menu item will be labelled with a tick. If an error occurs, an appropriate notice will be displayed.
6. Close the service menu by pressing the ⮌ button.

Calibration

After installation, the TravelPilot DX-V must be calibrated. You will find the procedure for this described in the operating instructions.

Calibrating the Gala curve

After the TravelPilot DX-V is calibrated, the values that were determined must be transferred to the control unit software so that the Gala feature (sound-dependent volume adjustment) works correctly.

Please proceed as follows:

1. Turn off TravelPilot DX-V.
2. Press the i button and keep it pressed.
3. Turn on the TravelPilot DX-V and release the i button when the service menu appears.
4. Using the > button, select the settings menu and press the OK button. This procedure transfers the calibration values that were previously determined to the control unit.
5. Close the service menu by pressing the ⮌ button.

Technical data

Basic navigation unit

Rated voltage (Urat)	14 V / DC
Rated current (I)	Typically 0.55 A (Imax 1.05 A)
Stand-by current	Typically 0.35 A
Speech output / volume	Max. 3 Watt/4 Ohm
Time to first position computation	(Warm start, memory refresh) < 2 minutes; (cold start, memory clear) < 15 minutes
CD-ROM drive	For 12 cm CD to DIN EN 60908 only
Operating temperature	-15 °C to +60 °C
Mounting orientation	right / left min. - 5° / max. + 5° slope to the rear min. - 3° / max. +100°
Width	187.5 mm
Height	58.5 mm
Depth	174.4 mm
Weight	1.35 kg

Subject to modification!

What's included in the delivery

TravelPilot DX-V

7 612 001 078
Navigation unit with integrated gyroscope and GPS receiver

7 612 001 073/74
depending on the model

7 612 001 071/72
depending on the model

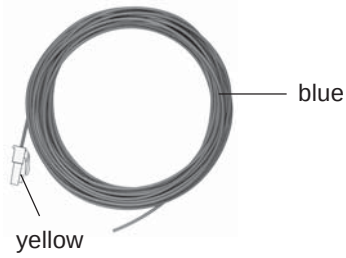
8 672 000 013
GPS-antenna

8 601 360 105
Operating unit incl. bracket and IR sensor (eye):

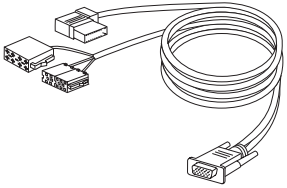
8 618 841 412
6 m of DC wire

What’s included in the delivery

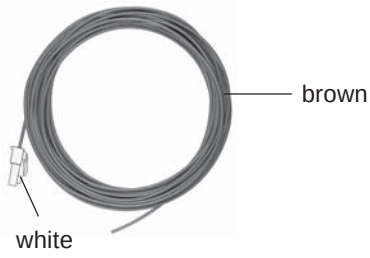
8 618 842 033
4.5 m of back-up lights signal wire



8 604 492 627
Monitor cable
(The cable is only included in the scope of delivery when combined with the 7 612 001 071/072 monitor.)



8 618 841 988
4 m of speedometer wire



8 604 492 513
0.3 m of connection wire (compartment C1)

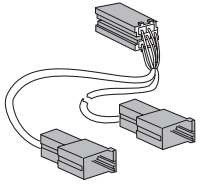
8 604 492 514
0.3 m of connection wire (compartment A)

What’s included in the delivery

8 606 590 212
Universal equipment housing

8 604 492 522
Tuner box / RC 09H connection wire

8 604 492 573
Y-adapter



Assembly illustrations

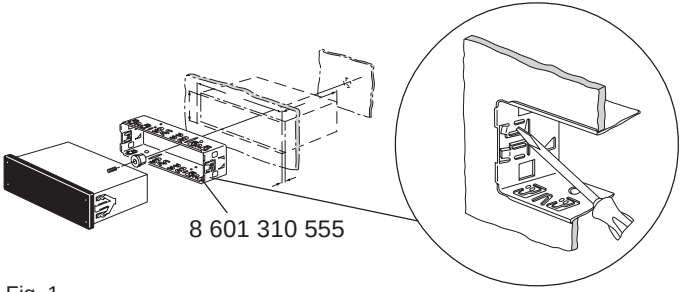


Fig. 1

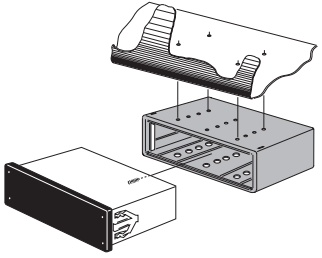


Fig. 1.1

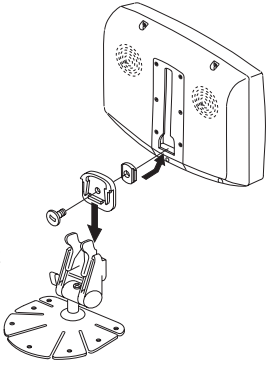


Fig. 2

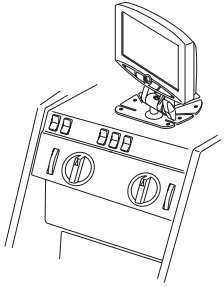


Fig. 3

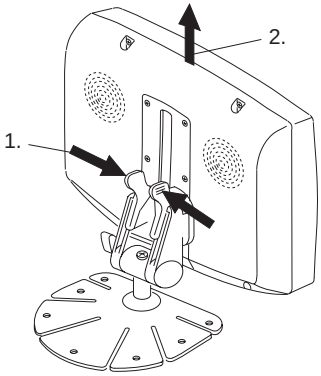


Fig. 4

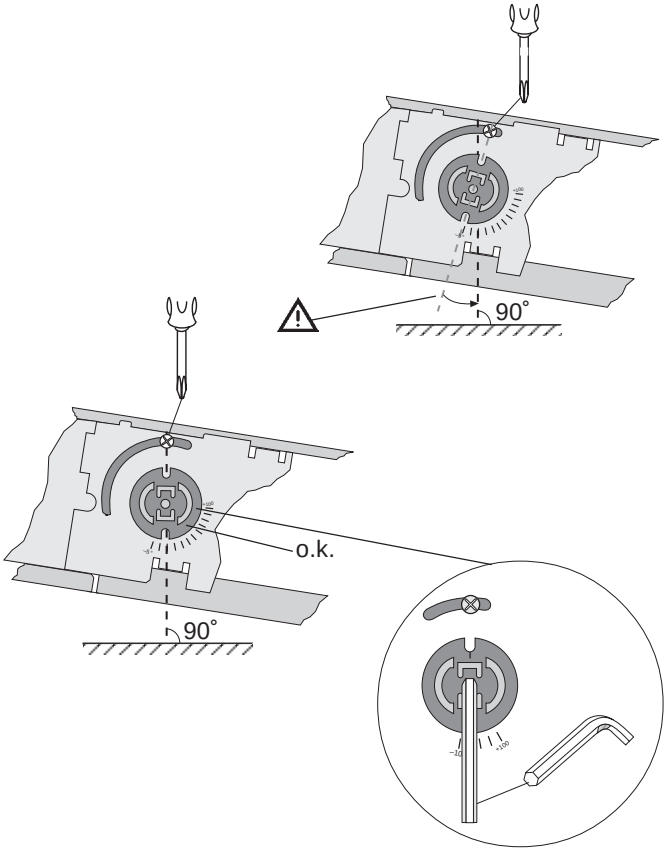
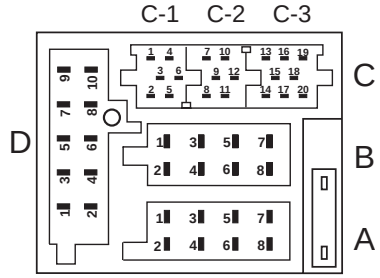


Fig. 5



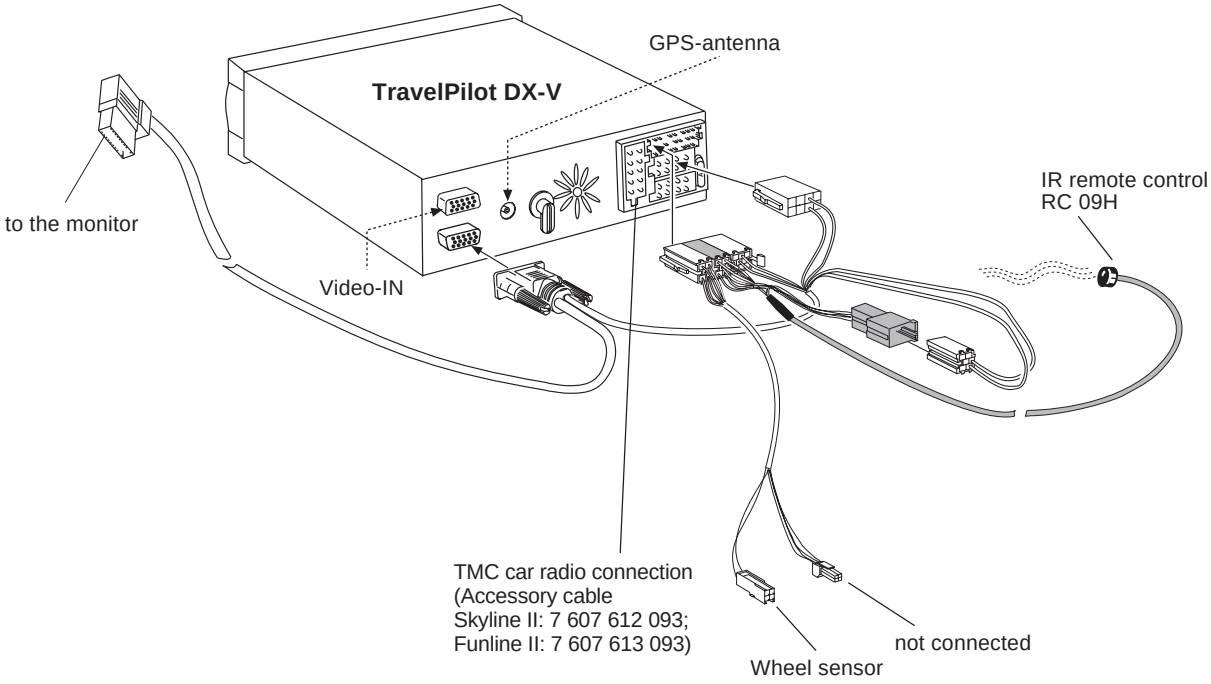
	A		B
1	Gala/Tacho	1	–
2	–	2	–
3	RFLS	3	–
4	Permanent +12V	4	–
5	–	5	Speaker out LF+
6	Illumination	6	Speaker out LF-
7	Ignition	7	–
8	Ground	8	–

	D
1	GND
2	Data Out
3	Data In
4	Mute (AR)
5	—
6	—
7	Line GND
8	—
9	Line Out
10	—

C					
C1		C2		C3	
1	Wheel sensor	7	CAN High	13	–
2	Wheel sensor	8	CAN Low	14	–
3	FB GND	9	+12V Permanent	15	–
4	-	10	+12V switched (RC 09)	16	–
5	-	11	PPM (RC 09)	17	–
6	-	12	PPM-GND	18	–
				19	–
				20	–

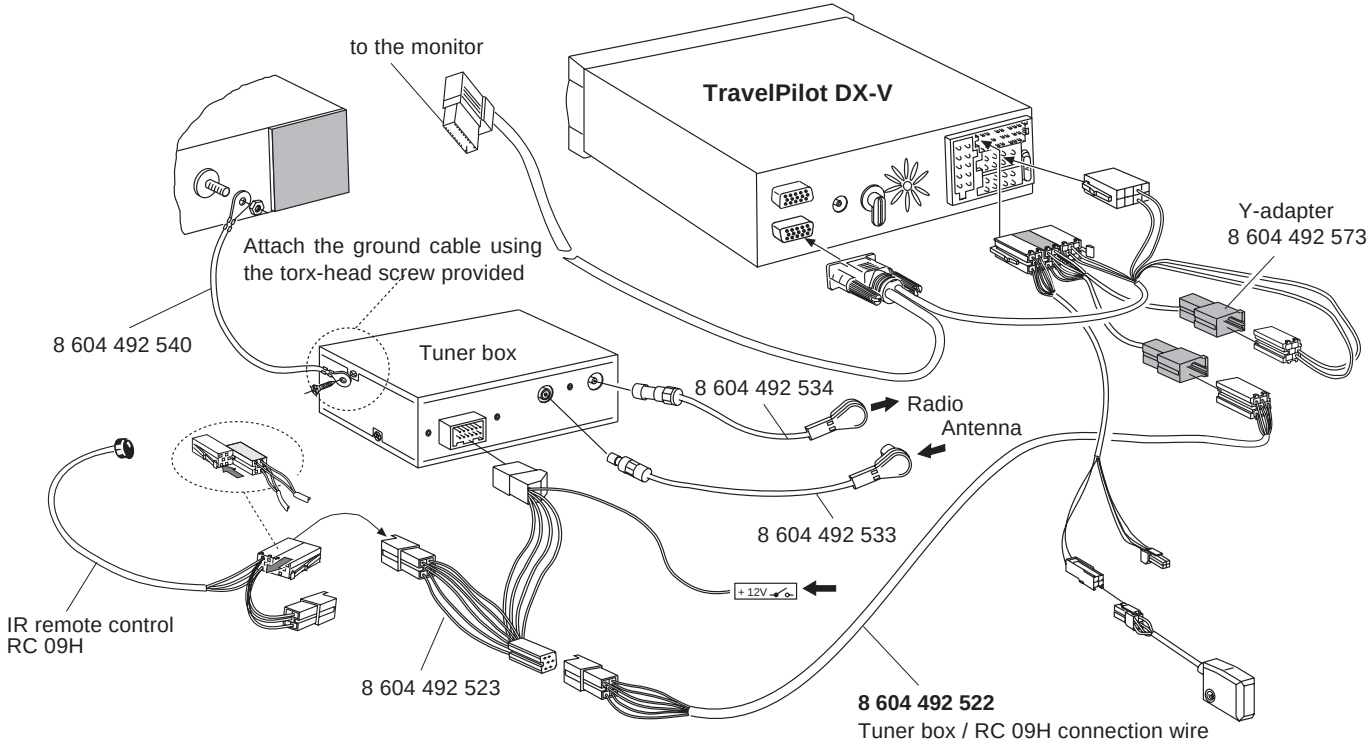
Connection diagrams

Installation location: DX-V and RC 09H in the front (DIN compartment)



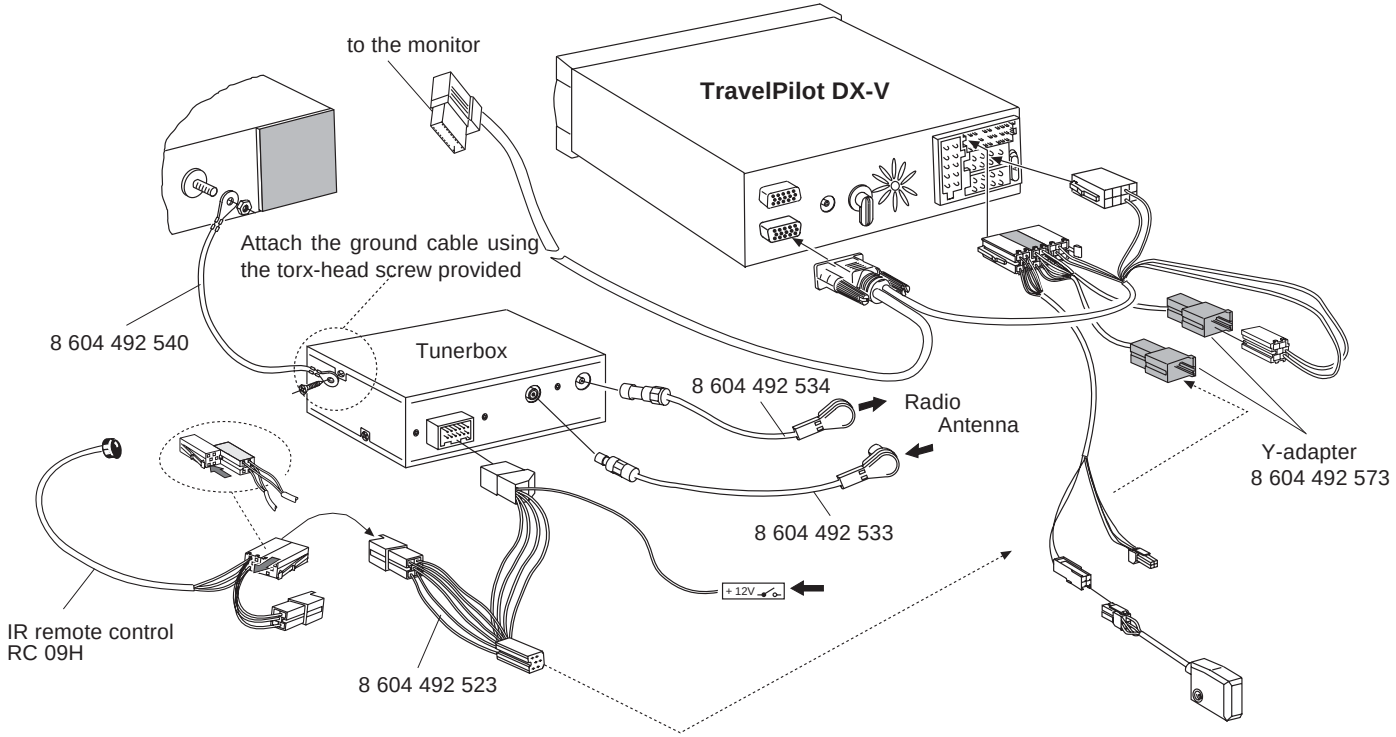
Connection diagrams

Installation location: DX-V in the car boot
TMC tuner box and RC 09H in the front (DIN compartment)



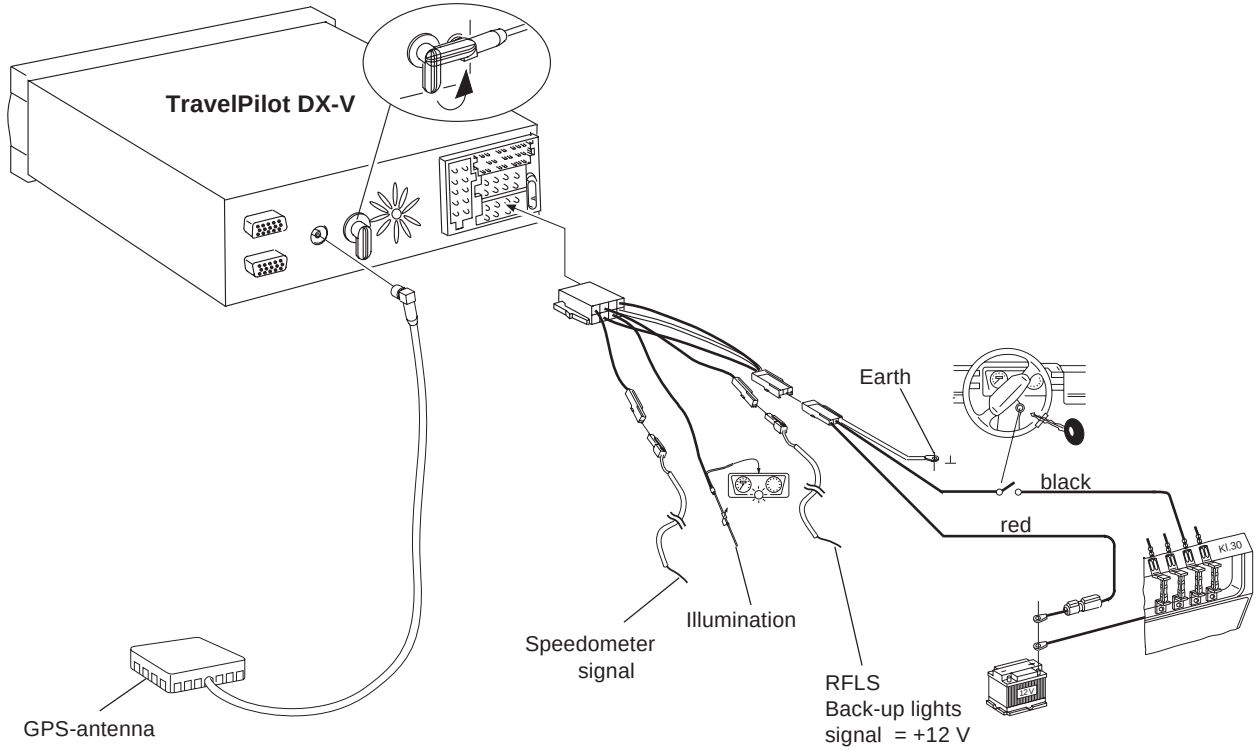
Connection diagrams

Installation location: DX-V, TMC tuner box and RC 09H in the front (DIN compartment)



Connection diagrams

DX-V connection to terminal area A



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France	(F)	01-4010 7007	01-4010 7320	
Great Britain	(GB)	01-89583 8880	01-89583 8394	
Greece	(GR)	0030-210 94 27 337	0030-210 94 12 711	
Ireland	(IRL)	01-4149400	01-4598830	
Italy	(I)	02-369 62331	02-369 62464	
Luxembourg	(L)	40 4078	40 2085	
Netherlands	(NL)	023-565 6348	023-565 6331	
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Blaupunkt GmbH

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